

WHAT IS CLAIMED IS:

1. A method for the production of a viral vaccine for human use, comprising:
  - (a) selecting a cell used for the production of a vaccine,
  - (b) increasing the permissiveness of said cell to viral replication as a result of a  
5 decrease in the expression or activity of interferon caused by said cell being deficient in  
at least one factor that regulates interferon expression or activity *in vivo*,
  - (c) exposing said cell under infective conditions to a virus or a sample suspected of  
containing a virus,
  - (d) culturing said exposed cell under conditions sufficient to provide efficient viral  
10 replication,
  - (e) harvesting the virus produced, and
  - (f) preparing said viral vaccine from said harvested virus for administration to  
humans.
- 15 2. The method of Claim 1, further comprising inactivating the virus produced thereby for  
the production of a viral vaccine.
3. The method of Claim 1, wherein said factor is PKR.
- 20 4. The method of Claim 1, wherein said cell is deficient in interferon-mediated antiviral  
responses.
5. The method of Claim 1, wherein said cell is deficient in the activity of the gene product  
of at least one interferon-stimulated gene.
- 25 6. The method of Claim 5, wherein said deficient cell is obtained by targeted gene deletion  
of said interferon-stimulated gene.
7. The method of Claim 1, further comprising analyzing said cell for the presence of said  
30 virus, thereby determining the presence of said virus in said sample.

8. The method of Claim 1, further comprising purifying the virus produced thereby for the production of a viral vaccine.

9. The method of Claim 8, further comprising packaging the virus produced thereby alone  
5 or with a pharmaceutically acceptable carrier for the production of a viral vaccine.